

3.3

Paying Bills and Counting Profits

The students think that \$350 is a fair price to charge for the tour. Sidney wants to be certain Ocean Bike Tours will make a profit if they charge \$350. She starts making the table below.

Tour Revenue and Expenses

Number of Customers	Revenue	Bike Rental	Food and Camp Costs	Total Expenses	Profit
1	\$350	\$30	\$ 125		
2	\$700	\$60	\$250		
3	\$1,050	\$90	\$ 375		

Problem

3.3

Equations for Revenue, Expenses, and Profit

- A. Extend and complete Sidney's table for 1 to 6 customers.
- B. Write a rule in words and an equation for calculating the
 1. revenue r for n customers
 2. total expenses e for n customers
 3. profit p for n customers
- C. Use the equations you wrote in Question B to find the revenue, expenses, and profit for 20 customers and for 31 customers.
- D. Sidney forgot that the tour operators need to rent a van to carry equipment. The rental cost for the van will be \$700.
 1. How does this expense affect the equation for total expenses?
 2. How does this expense affect the equation for profit?



Homework starts on page 55.